

# DataCore: The Storage Foundation for Total Enterprise Virtualization



No one would ever dream of throwing away Exchange or VMware because the server became obsolete. So why do it with Storage?

Total Enterprise Virtualization	Virtual Desktops <b>Citrix/VMware</b>	Virtual Servers <b>VMware/XenServer</b>	Virtual Storage <b>DataCore</b>	DataCore Adds Compelling Value to Virtual Servers & Desktops
<i>Solutions &amp; Benefits</i>	<b>Applications</b>	<b>Systems (VMs)</b>	<b>Data Storage Services</b>	<b>DataCore The Virtual Storage Foundation</b>
<p><b>Business Continuity &amp; Disaster Recovery</b> Keep Business Running Non-Stop Greater Peace of Mind Failure and disaster recovery</p> <p><b>Provisioning &amp; Migration</b> Flexibility Automation Ease of Migration Hardware Independence</p> <p><b>Consolidation</b> Optimize Resources and Staff Increase Operational Efficiency Reduce Sprawl and Variations</p> <p><b>Utilization</b> Stop Wasting Money Maximize ROI Reduce Costs</p> <p><b>Central Admin/Upgrades/Updates</b> Enhance Productivity Efficiency &amp; Simplification Reduce Complexity</p> <p><b>Performance</b> Time Savings &amp; Productivity User Satisfaction Future Proofing Speed ups &amp; Uniformity</p> <p><b>Control, Security, Protection</b> Greater Control &amp; Management Greater Peace of Mind</p> <p><b>Agility &amp; Rapid Response</b> Fast Response to Change Software Portability</p>	<p>"All the eggs (apps) in 1 basket" Requires high-availability shared storage protection &amp; App failover</p> <p>Provision Access/Desktops Access policies Change Access Swap/Redeploy server platforms But, Disks fixed &amp; dedicated/App</p> <p>Manage a Delivery System vs 100s or 1000s (Apps)</p> <p>From: 10% Use - 90% Waste To: 90% Utilization - Apps</p> <p>Leverages Staff/Skills/Process Do once vs many times Manage 1 App</p> <p>Access time &amp; app performance QoS/SLAs and Access to Apps Ease of Tech Infusion Bandwidth optimizations</p> <p>Manage Apps in one place vs many Simpler to secure/control/protect</p> <p>Deploy Apps/Desktops rapidly Add/swap apps or servers easily</p>	<p>"All the eggs (VMs) in 1 basket" Requires high-availability shared storage protection &amp; VMotion</p> <p>Provision Machines Processing resources VMotion VM migration Swap/Redeploy server platforms But, Disks fixed &amp; dedicated per VM</p> <p>Manage a Server System vs 100s or 1000s (Machines)</p> <p>From: 10% Use - 90% Waste To: 90% Utilization - CPU</p> <p>Leverages Staff/Skills/Process Do once vs many times Manage 1 System</p> <p>Machine performance QoS/SLAs and Access to VMs Ease of Tech Infusion Computing distribution</p> <p>Manage VMs in one place vs many Simpler to secure/control/protect</p> <p>Deploy Machines rapidly Add/swap VMs or servers easily</p>	<p>High-Availability Virtual SAN Auto-Failover &amp; Auto-Recovery Transparent to Apps &amp; VMs Mirrors, Snapshots, D2D Backups Virtual vs Fixed Storage Mappings</p> <p>Provision Storage Automate Capacity Provisioning SANmotion Storage Migration Swap/Redeploy servers &amp; disks Storage virtual &amp; shared as needed</p> <p>Manage a Storage Server vs 100s or 1000s (Disks)</p> <p>From: 25% Use - 90% Waste To: 90% Utilization - Capacity</p> <p>Leverages Staff/Skills/Process Do once vs many times Manage 1 Storage Pool</p> <p>Accelerate R/W performance -2-4X! QoS/SLAs and Access to Storage Ease of Tech Infusion Caching across Storage Pool</p> <p>Manage storage in one place vs many Simpler to secure/control/protect</p> <p>Deploy Storage rapidly Add/swap disks or servers easily</p>	<p>Affordable Data Protection <b>Fundamental Advantage - Data Protection &amp; Uptime</b> Affordable, Automatic and Transparent to Apps Enterprise Class Availability, CDP and DR Full Feature Set of Data Protection Protects constantly changing virtual machines</p> <p>Agile Virtual Storage vs Fixed &amp; Hardware Dependent <b>Point and Click Storage Allocation</b> Eliminate steps &amp; 'out of disk space' stoppages Serve up ready to go disks, "Hot Swap" pools, etc... Software Portability for New Technology Infusion Virtual Shared Storage Agility vs Fixed &amp; Dedicated</p> <p>Standard Server + DataCore "Software Personality" <b>Resource Pooling, Automated Provisioning</b> Storage servers are same class used for VMware/Citrix Common Staff, Common to Maintain/Update/Upgrade Optimal Storage Consolidation &amp; Mgmt Approach</p> <p>Full Utilization - No Waste Serve storage to Windows/Macs/Linux/Netware/UNIX... 'Just in Time' provisioning over iSCSI LAN or Fiber SAN Buy/Add storage only when you need it</p> <p>Infrastructure Simplification Same tools and process use on different vendor arrays Automation, Group Operations, Wizards Comprehensive Storage Management &amp; Network Agnostic</p> <p>Faster Data Access &amp; Higher Productivity Get more work done in the same given time Sophisticated Caching technology and Performance Tools Future Proofing - Easily Advance &amp; Upgrade Platforms Accelerate storage intensive application</p> <p>Consolidated Management &amp; Control <b>Centralized Storage Management &amp; Administration</b> Centralized Control reduces complexity and # of tasks</p> <p>Hardware Independent Flexibility <b>Not Hardware Dependent - Point and Click to Allocate</b> Easy to scale, simple to migrate to new platforms</p>

# Total Enterprise Virtualization

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## Virtual Desktop

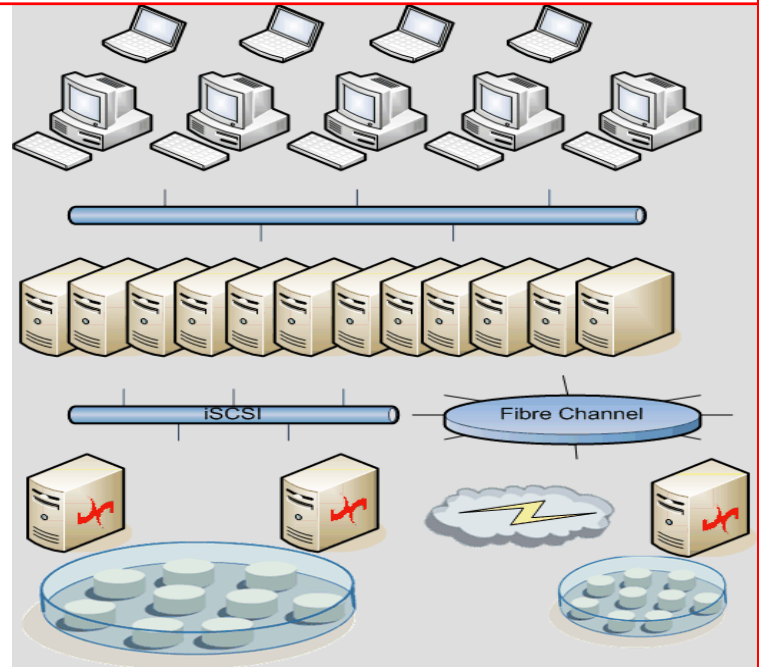
Citrix, VMware, Provision Networks

## Virtual Servers

VMware, Microsoft VS, Virtual Iron, Citrix XenServer, Oracle VM, SUN VM

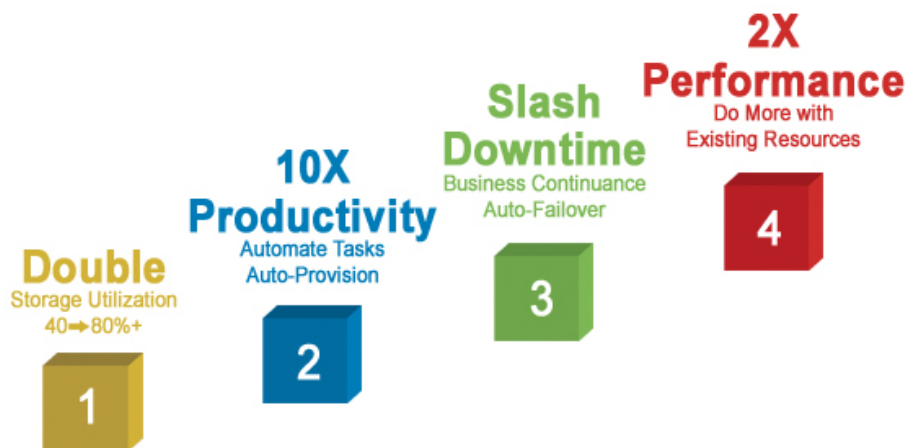
## Virtual Storage

DataCore



**Total Enterprise Virtualization** – The combination of proven virtualization solutions into comprehensive, enterprise-wide, virtual infrastructures, comprising desktops, servers and storage. **DataCore does for storage what VMware and Citrix do for servers and desktops.**

### More Value, Cost Savings and ROI



### Less Money, Time and Effort

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